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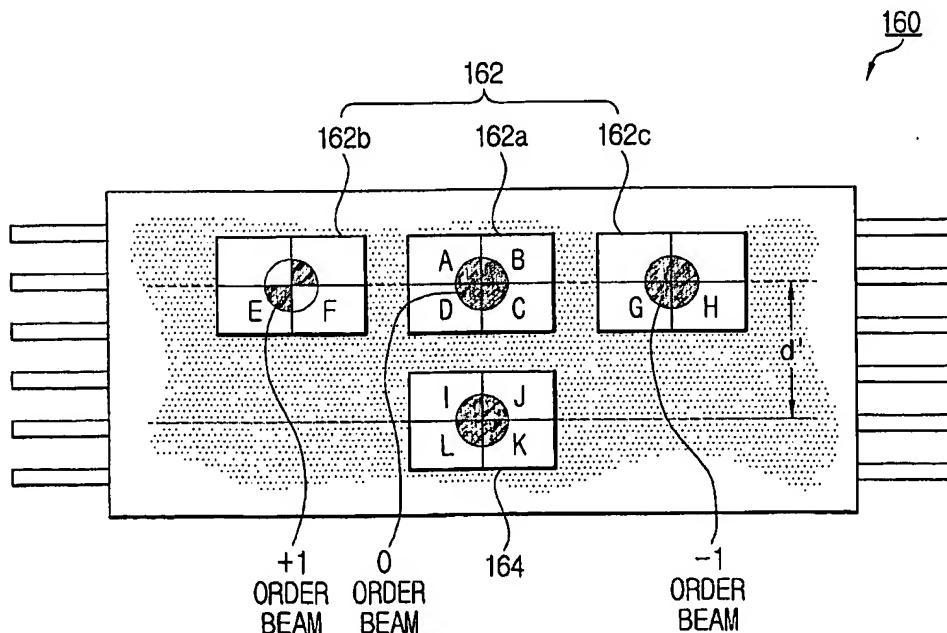
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| <p>(51) <b>International Patent Classification<sup>7</sup>:</b> <b>G11B 7/13</b></p> <p>(21) <b>International Application Number:</b><br/>PCT/KR2003/002169</p> <p>(22) <b>International Filing Date:</b> 17 October 2003 (17.10.2003)</p> <p>(25) <b>Filing Language:</b> English</p> <p>(26) <b>Publication Language:</b> English</p> <p>(30) <b>Priority Data:</b><br/>10-2003-0065382<br/>20 September 2003 (20.09.2003) KR</p> <p>(71) <b>Applicant (for all designated States except US):</b> <b>SAM-SUNG ELECTRONICS CO., LTD.</b> [KR/KR]; 416, Maetan-dong, Paldal-gu, Suwon-city, 442-370 Gyeonggi-do (KR).</p> <p>(72) <b>Inventors; and</b></p> <p>(75) <b>Inventors/Applicants (for US only):</b> <b>PARK, Soo-han</b> [KR/KR]; 511-901, Jinsan-maeul Samsung 5th Apartment,</p> | <p>1161, Bojeong-ri, Guseong-myeon, Yongin-city, 449-913 Gyeonggi-do (KR). <b>KIM, Jong-uk</b> [KR/KR]; 301, Hyundai Haitz Villa, 435-66, Singal-ri, Giheung-eup, Yongin-city, 449-597 Gyeonggi-do (KR).</p> <p>(74) <b>Agent:</b> <b>JEONG, Hong-sik</b>; 8Fl., Daelim Bldg., 1600-3, Seocho-dong, Seocho-gu, 137-877 Seoul (KR).</p> <p>(81) <b>Designated States (national):</b> AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.</p> <p>(84) <b>Designated States (regional):</b> ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).</p> |
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(54) Title: PHOTO DIODE IC



**(57) Abstract:** A photo diode for a laser diode of two wavelengths is disclosed. According to the present invention, a 12-sectioned photo diode is provided to detect a DVD laser beam and CD laser beam, respectively, and as a result, the laser diode of two wavelengths is well adapted for use in an optical pick-up.



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